

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Adopted 9-1-65

COMPANY YPC LEASE Paradee D.C. Co. WELL NO. 1 (66666666) DATE 2-15-77

LOCATION: Unit 0 Section 35 Township 17S Range 25E

L 6600 H 6900 L/H 0.717 G 0.717 % CO₂ 0.62 % N₂ 0.50 % H₂S 11.1
 2 3/8 - 6497(3.48)=25858 d 2.0193 F_r 2.0172-0.4 GH 4732.2 665.4 797.9 P_{cr} 690 T_{cr} 394
 4-2 3/8 - 1.03(10.24)=10.54 1.472 24.4

LINE	1	2	3	4	1	2	3	4
1 Q _m	51	1.370	1.549	1.712	1.958	51	1.370	1.549
2 T _w (W.H. °R)	526	527	526	525	524			
3 (B.H. °R)	562	561	560	559	558			
4 T = (T _w - T _s)	544	544	543	542	541	544	544	541
5 Z (Est.)	0.69	0.69	0.692	0.697	0.705	0.688	0.691	0.6935
6 T _z	375.36	375.36	375.36	377.794	381.405	374.272	375.404	375.877
7 GH/T _z	12.607	12.607	12.594	12.527	12.407	12.644	12.589	12.590
8 e ^s (Table XIV)	1.6043	1.6043	1.6035	1.5995	1.592	1.6065	1.60325	1.6033
9 1-e ^s (Table XIV)		0.3967	0.3764	0.3948	0.372	0.3775	0.3763	0.3763
10 P ₁	1923.2	1825.2	1739.2	1656.2	1508.2	1923.2	1825.2	1656.2
11 P ₁ Z ₁ 1000	3698.7	3331.36	3024.82	2743.0	2274.67	3698.7	3331.36	2274.67
12 T ₁ (T _z 1000 XV) S=10375 $\frac{P_1}{T_1}$	47277	47277	47227	46975		47227	47208	47212
13 T ₁ = F ₁ T _z		6.4577	6.4645	6.4492	6.5117		6.467	6.4666
14 P ₁ Q _m		2.389	3.549	4.6274	6.2861		2.393	4.6042
15 L ₁ H (F ₁ Q _m) ²		5.709	12.595	21.41	39.515		5.726	21.199
16 F ₁ = L ₁ / H (F ₁ Q _m) ² (1-e ^s)		2.15	4.74	8.06	14.73		2.15	7.98
17 P ₁ Z ₁ = P ₁ Z + F _w		3333.51	3029.56	2751.06	2289.37		3333.51	2750.98
18 P ₁ Z ₁ = e ^s P ₁ Z		5934.0	5347.9	4857.89	4400.3		5344.45	4410.65
19 P _s	2436.0	2312.6	2204.0	2097.7	1904.1	2437.6	2311.8	2100.2
20 P = (P ₁ + P _s)	2179.6	2065.9	1971.6	1876.95	1708.7	2180.4	2068.5	1878.2
21 P ₁ = (P/P _{cr})	3.253	3.088	2.943	2.801	2.550	3.254	3.087	2.803
22 T ₁ = (T/T _{cr})	1.3807	1.3807	1.3782	1.3756	1.3731	1.3807	1.3807	1.3756
23 Z (Table XI)	0.688	0.691	0.692	0.6935	0.7035	0.688	0.691	0.6935